

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 13. (Cancelled)

14. (New) A wireless access system, comprising:

a gateway for receiving a wireless control signal to be transmitted to external equipment located beyond the gateway;

a wireless base station for transferring the wireless control signal to the gateway;

a mobile terminal for transmitting the wireless control signal to the wireless base station; and

an access network control station for determining whether or not the mobile terminal is allowed to communicate with the external equipment;

wherein the gateway is configured to transfer the wireless control signal to the access network control station in a case where the gateway has determined that the mobile terminal has not been allowed to communicate with the external equipment by the access network control station;

wherein the access network control station is configured to instruct the gateway to allow the mobile terminal to communicate with the external equipment in a case where the access network control station has determined that the mobile terminal is allowed to communicate with the external equipment; and

wherein the gateway is configured to transfer the wireless control signal to the external equipment in a case where the gateway has determined that the mobile terminal has been allowed to communicate with the external equipment by the access network control station.

15. (New) The wireless access system according to claim 14,

wherein the access network control station is configured to determine whether or not the mobile terminal is allowed to communicate with the external equipment based on communications with the mobile terminal through the wireless base station.

16. (New) The wireless access system according to claim 14,

wherein the gateway is configured to instruct the wireless base station to establish a dedicated channel between the mobile terminal and the gateway to transfer the wireless control signal to the external equipment after the access network control station instructs the gateway to allow the mobile terminal to communicate with the external equipment.

17. (New) The wireless access system according to claim 16,

wherein the gateway is configured to determine whether or not the mobile terminal has been allowed to communicate with the external equipment by the access network control station based on a communication channel used for the wireless control signal.

18. (New) The wireless access system according to claim 17,

wherein the gateway is configured to determine that the mobile terminal has not been allowed to communicate with the external equipment by the access network control station in a case where the communication channel used for the wireless control signal is not the dedicated channel.

19. (New) The wireless access system according to claim 18,

wherein the gateway is configured to determine that the mobile terminal has been allowed to communicate with the external equipment by the access network control station in a case where the communication channel used for the wireless control signal is the dedicated channel.

20. (New) A wireless access control method used in a wireless access system, said wireless access system including a mobile terminal, a wireless base station, a gateway, and an access network control station, said method comprising:

transmitting, from the mobile terminal to the wireless base station, a wireless control signal to be transmitted to external equipment located beyond the gateway;

transferring the wireless control signal from the wireless base station to the gateway;

transferring, from the gateway to the access network control station, the wireless control signal in a case where the gateway has determined that the mobile terminal has not been allowed to communicate with the external equipment by the access network control station;

instructing, by the access network control station, the gateway to allow the mobile terminal to communicate with the external equipment in a case where the access network control station has determined that the mobile terminal is allowed to communicate with the external equipment; and

transferring, by the gateway, the wireless control signal to the external equipment in a case where the gateway has determined that the mobile terminal has been allowed to communicate with the external equipment by the access network control station.

21. (New) The wireless access control method according to claim 20,

wherein the mobile terminal is allowed to communicate with the external equipment based on communications between the access network control station and the mobile terminal through the wireless base station.

22. (New) The wireless access control method according to claim 20, further comprising:

instructing, by the gateway, the wireless base station to establish a dedicated channel between the mobile terminal and the gateway to transfer the wireless control signal to the external equipment after the access network control station instructs the gateway to allow the mobile terminal to communicate with the external equipment.

23. (New) The wireless access control method according to claim 22,

wherein the gateway determines whether or not the mobile terminal has been allowed to communicate with the external equipment by the access network control station based on a communication channel used for the wireless control signal.

24. (New) The wireless access system according to claim 23,

wherein the gateway determines that the mobile terminal has not been allowed to communicate with the external equipment by the access network control station in a case where the communication channel used for the wireless control signal is not the dedicated channel.

25. (New) The wireless access system according to claim 24,

wherein the gateway determines that the mobile terminal has been allowed to communicate with the external equipment by the access network control station in a case where the communication channel used for the wireless control signal is the dedicated channel.

26. (New) A wireless access control method used in a gateway, said method comprising:

receiving a wireless control signal to be transmitted to external equipment located beyond the gateway from a mobile terminal through a wireless base station;

transferring the wireless control signal to an access network control station in a case where the gateway has determined that the mobile terminal has not been allowed to communicate with the external equipment by the access network control station; and

transferring the wireless control signal to the external equipment in a case where the wireless access gateway has determined that the mobile terminal has been allowed to communicate with the external equipment by the access network control station.

27. (New) A wireless access control method used in an access network control station, said method comprising:

receiving a wireless control signal to be transmitted to external equipment located beyond a gateway from a mobile terminal through a wireless base station and a gateway; and instructing the gateway to allow the mobile terminal to communicate with the external equipment in a case where the access network control station has determined that the mobile terminal is allowed to communicate with the external equipment.